

**Notice of Allowability**

Application No.

10/734,072

Applicant(s)

TUTTLE ET AL.

Examiner

Caridad M. Everhart

Art Unit

2891

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 3-30-2007.
2. ☒ The allowed claim(s) is/are 1-19, 39-43, 63-67 and 73-101.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>See Continuation Sheet</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                 | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 3-30-07;5-11-07;7-2-07.

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the Specification:

Please insert the following in the first column before the heading "TECHNICAL FIELD":

-- More than one reissue application has been filed for the reissue of Patent No. 6,329,213 B1. The reissue applications are application numbers 10/734,072 (the present application), 11/302,543, and 11/496,088, all of which are continuation reissues of Patent No. 6,329,213 B1. —

In the Abstract:

Please cancel the Abstract on the cover page and replace it with the following Abstract as follows:

[The invention includes methods for forming integrated circuits within substrates, and embedded circuits. In one aspect, the invention includes a method of forming an integrated circuit within a substrate comprising: a) providing a recess in a substrate; b) printing an antenna within the recess; and c) providing an integrated circuit chip and a battery in electrical connection with the antenna. In another aspect, the

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invention includes a method of forming an integrated circuit within a substrate comprising: a) providing a substrate having a first recess and a second recess formed therein; b) printing a conductive film between the first and second recesses and within the first and second recesses, the conductive film forming electrical interconnects between and within the first and second recesses; c) providing a first electrical component within the first recess and in electrical connection with the electrical interconnects therein; d) providing a second electrical component within the second recess and in electrical connection with the electrical interconnects therein; and e) covering the first electrical component, the second electrical component and the conductive film with at least one protective cover. In another aspect, the invention includes an embedded circuit comprising: 1) a substrate having a recess therein, the recess having a bottom surface and a sidewall surface joined to the bottom surface; b) interconnect circuitry formed on the bottom and sidewall surfaces; and c) an integrated circuit chip within the recess and operatively connected to the interconnect circuitry.]

-- Method of forming a radio frequency identification (RFID) device. In one embodiment, a recess is provided in a plastic substrate containing an integrated circuit comprising RFID circuitry. A conductive material extends over a sidewall of the recess and is coupled to the integrated circuit in a first region and to an antenna in a second region. A flexible film may be disposed over the recess, the integrated circuit, and the conductive material. —

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The Information Disclosure Statement filed March 30, 2007 has been reviewed. The foreign reference JPO 07022831 has the US patent family member 5,566,441, which was relied upon in the non-final Office Action 1-15-2006. Applicant's subsequent amendments overcame the rejections. The IDS filed May 11, 2007 and the IDS filed July 2, 2007 have each been reviewed. The patent to Marsh has been cited above. The Murata reference JP 08-111573 is considered relevant to applicant's disclosure as it discloses a thick film for pad printing on a substrate which has a recess. The reference SA93/1752 is of the same patent family as the Marsh reference which has been cited above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

*C. Everhart*  
CAROL A EVERHART  
PRIMARY EXAMINER

C. Everhart  
8-23-2007